

Claim Amendments

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An image capture system, comprising:

a first image sensor lens module comprising a first lens integrated with a first sensor, the

first image sensor lens module operable to ~~generate~~capture first raw image data;

a second image sensor lens module comprising a second lens integrated with a second

sensor, the second image sensor lens module operable to ~~generate~~capture second raw image data;

a shared image processing engine integrated into a single electronic device with the first image sensor lens module and the second image sensor lens module and coupled to the first image sensor lens module and to the second image sensor lens module, wherein the shared image processing engine is operable to perform an image processing operation to transform raw image data into a viewable image on at least a subset of the first image data and the second image data; and

a selector integrated into the single electronic device, wherein while the single electronic device is on and the first image sensor lens module is generating the first raw image data and the second image sensor lens module is generating the second raw image data, the selector selects a selected one of the first raw image data and the second raw image data to be routed to the shared image processing engine to be transformed into the viewable image~~the processing engine, the first image sensor lens module, and the second image sensor lens module are integrated into a single integrated circuit device; and~~

~~wherein individual pixels captured by the first image sensor lens module and the second image sensor lens module are randomly accessible.~~

2. (Currently Amended) The image capture system of claim 1, further comprising a support having an exterior surface that comprises a mounting surface to mount the single ~~electronic integrated circuit device~~, the support having a generally spherical geometry.

3. (Currently Amended) The image capture system of claim 1, further comprising:
a third image sensor lens module operable to ~~generate~~capture third raw image data,
wherein the third image sensor lens module is integrated into the single
~~electronic integrated circuit device~~ and coupled to the shared image processing
engine, and wherein ~~while the single electronic device is on, the first image sensor~~
lens module is generating the first raw image data, the second image sensor lens
module is generating the second raw image data, the third image sensor lens
module is generating the third raw image data, the selector processing engine is
operable to causes only one of the first raw image data, the second raw image
data, and the third raw image data to be routed to the shared image processing
engine to be transformed into the viewable image ~~perform the image processing~~
~~operation based on at least the subset of the first image data and the second image~~
~~data and at least a subset of the third image data.~~
4. (Currently Amended) The image capture system of claim 1, wherein the first and
second image sensor lens modules are adjustably secured to a mounting surface.
5. (Cancelled).
6. (Currently Amended) The image capture system of claim 1, further comprising a
microphone assembly communicatively coupled to the shared image processing engine to
provide audio input.
7. (Cancelled).
8. (Currently Amended) The image capture system of claim 1, further comprising a
triggering engine operable to signal ~~[[a]]~~the selector to route the second raw image data to the
shared image processing engine in response to a determination that the second image sensor lens
module is aimed toward particular image data should capture scene activity.

9. (Currently Amended) The image capture system of claim 8, further comprising:
a support having an exterior surface that comprises a mounting surface to mount the
single ~~electronic~~integrated circuit device, the support having a geometry that
facilitates differing orientations of the first and the second image sensor lens
modules; and
an interface operable to communicatively couple an output of the shared image
processing engine to an external computing system.

10. (Cancelled).

11. (Currently Amended) An image capturing system comprising:
~~an integrated circuit comprising:~~
a first image module selectively coupled to a processing engine by way of a selector, the
first image module operable to capture a first raw image information;
a second image module selectively coupled to the processing engine by way of the
selector, the second image module operable to capture a second raw image
information;
the selector operable to determine a selected image module from ~~select between~~ the first
image module information and the second image module information in response
to the processing engine identifying which of the first image information and the
second image information comprises desired information and to selectively
~~cause~~deliver a raw image captured by the selected image module to be sent to the
~~identified desired information to the processing engine;~~
the processing engine operable to perform an image processing operation on the raw
image captured by the selected image module, wherein the processing engine is
not configured to perform the image processing operation on the first raw image
and the second raw image simultaneously~~selected, identified desired information~~
~~received from the selector;~~
~~wherein individual pixels captured by the first image module and the second image~~
~~module are randomly accessible.~~

12. (Currently Amended) The image capture system of claim 11, further comprising:
~~a third image module communicatively coupled to the processing engine; and~~
an interface operable to facilitate communication of a processing engine output to a
device selected from the group consisting of a cable modem, a DSL modem and a
computing device.

13. (Cancelled).

14. (Cancelled).

15. (Cancelled).

16. (Cancelled).

17. (Currently Amended) The image capture system of claim 11, wherein the first image
module has a resolution and the second image module has a different resolution.

18. (Currently Amended) The image capture system of claim 11, wherein the first image
module comprises a ~~digital zoom~~ first lens and a first sensor, wherein the second image module
comprises a second lens and a second sensor, and wherein the first lens and the first sensor have
a different focal length than the second lens and the second sensor.

19. (Currently Amended) The image capture system of claim 11, wherein the first image
module comprises ~~an optical zoom~~ lens with autofocus.

20. (Cancelled).

21. (Currently Amended) The image capture system of claim 11, wherein the first raw
image ~~information~~ represents a first view of a scene and the second raw image information
represents a second view of the scene and wherein at least a portion of the first view information
~~represents~~ includes a portion of the scene captured in the second view.

22. (Cancelled).

23. (Currently Amended) An image capturing method, comprising:

~~correlating a plurality of digital image sensors with different views of a scene, wherein at least one of the plurality of digital image sensors comprises a lens integrated with a sensor;~~

receiving first image information that represents a first view of the scene obtained from a first digital image sensor of a ~~one of the~~ plurality of digital image sensors;

receiving second image information that represents a second view of the scene obtained from a second digital image sensor ~~one of the~~ plurality of digital image sensors;

~~determining, by a processing engine, between~~ sending a set of image information representing a single view obtained from one of the plurality of digital image sensors ~~the first information and the second information which of the first information and the second information comprises a desired portion of the scene;~~ and

~~selecting the determined desired portion of the scene to be delivered to a~~ [[the]] processing engine; and

performing an image processing operation on the set of image information, wherein the processing engine is not configured to perform the image processing operation on the first image information and the second image information simultaneously ~~wherein individual pixels captured by the first digital image sensor and the second digital image sensor are randomly accessible.~~

24. (Cancelled).

25. (Currently Amended) The image capturing method of claim 23, further comprising performing [[an]]the image signal processing operation on the first image information until a desired portion of a scene is not in view of the first digital image sensor, then ceasing to perform the image processing operation on the first image information and performing the image processing operation of the second image information.

26. (Currently Amended) The image capture method of claim 23, further comprising:
~~performing an image signal processing operation on the first information; and~~
initiating presentation of the single view~~first information~~ on a display after performing
the image signal processing operation.

27. (Cancelled).

28. (Currently Amended) The image capture method of claim 23, further comprising:
~~correlating the first view to a first image sensor of the plurality of image sensors and the~~
~~second view to a second image sensor of the plurality of image sensors; and~~
when the image processing operation is being performed on the second image
information, receiving a directional identification signal indicating that the first
view contains a desired scene activity at a location associated with the first view;
and
in response to the directional identification signal, ceasing to perform the image
processing operation on the second image information, and performing the image
processing operation on the first image information.

29. (Currently Amended) The image capture method of claim 23, further comprising:
~~performing an image signal processing operation on the first information; and~~
outputting post processed image signal information.

30. (Cancelled).

31. (Currently Amended) The image capture method of claim 29, further comprising
streaming the post processed image signal information.

32. (Cancelled).

33. (Cancelled).

34. (Previously Presented) The image capturing system of claim 11, wherein the first image module comprises a lens integrated with a sensor.

35. (Previously Presented) The image capture system of claim 1, wherein the first image sensor lens module does not include a computer readable memory.

36. (Previously Presented) The image capture system of claim 1, wherein there is no optical component spatially situated between the first lens and the first sensor.

37. (Previously Presented) The image capturing method of claim 23, wherein none of the plurality of digital image sensors includes a computer readable memory.

38. (Currently Amended) The image capturing method of claim 23, wherein ~~an integrated circuit comprises~~ the plurality of digital image sensors are integrated within a single electronic device.

39. (Currently Amended) The image capture system of claim 1, wherein the first lens of the first image sensor lens module has a first depth of focus, and wherein the second lens of the second image sensor lens module has a second depth of focus different from the first depth of focus, ~~and wherein the first image sensor lens module and the second image sensor lens module are integrated on an integrated circuit with the processing engine.~~

40. (Currently Amended) The image capture system of claim 39, ~~wherein the further comprising a triggering engine integrated into the single electronic device, wherein the triggering engine is operable to evaluate scene view information to identify which of the first raw image data information and the second raw image data information comprises desired information by evaluating the first information at the first depth of focus and evaluating the second information at the second depth of focus.~~

41. (Currently Amended) The image capture system of claim 1, wherein the shared image processing engine and the selector replicate performs a pan, tilt and zoom operation by selectively causing the only one of the first raw image data and the second raw image data to be transformed into the viewable image~~on the identified desired information.~~

42. (Currently Amended) The image capture system of claim 1, wherein the shared image processing engine performs a digital magnification by interpolating between pixels ~~in a center of the selected one of the first raw image data and the second raw image data routed to the shared image processing engine~~identified desired information.

43. (Previously Presented) The image capturing system of claim 11, wherein the first image module has a first depth of focus, wherein the second image module has a second depth of focus, and wherein the first image module and the second image module are integrated on a single integrated circuit with the processing engine.

44. (Cancelled).

45. (Cancelled).

46. (Cancelled).